

FIGURES

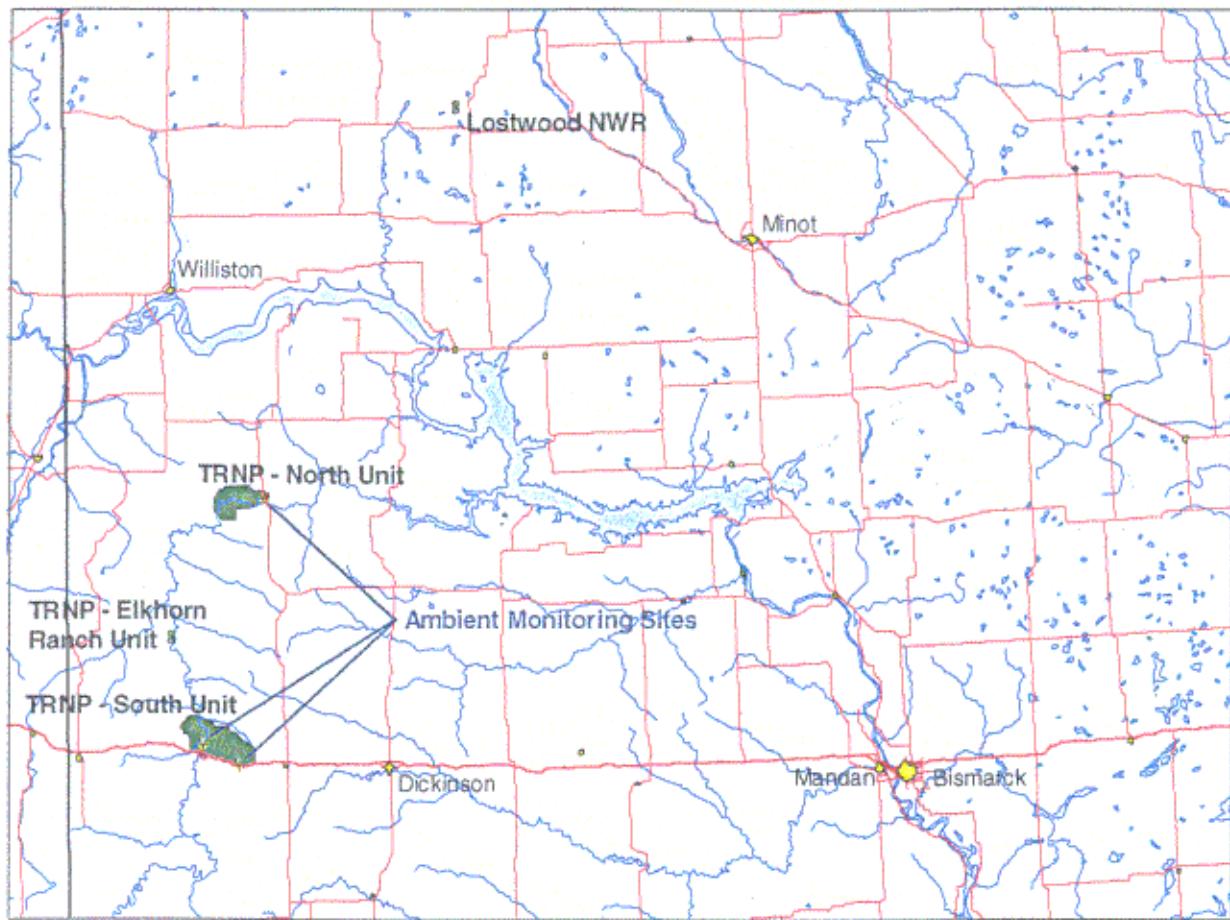
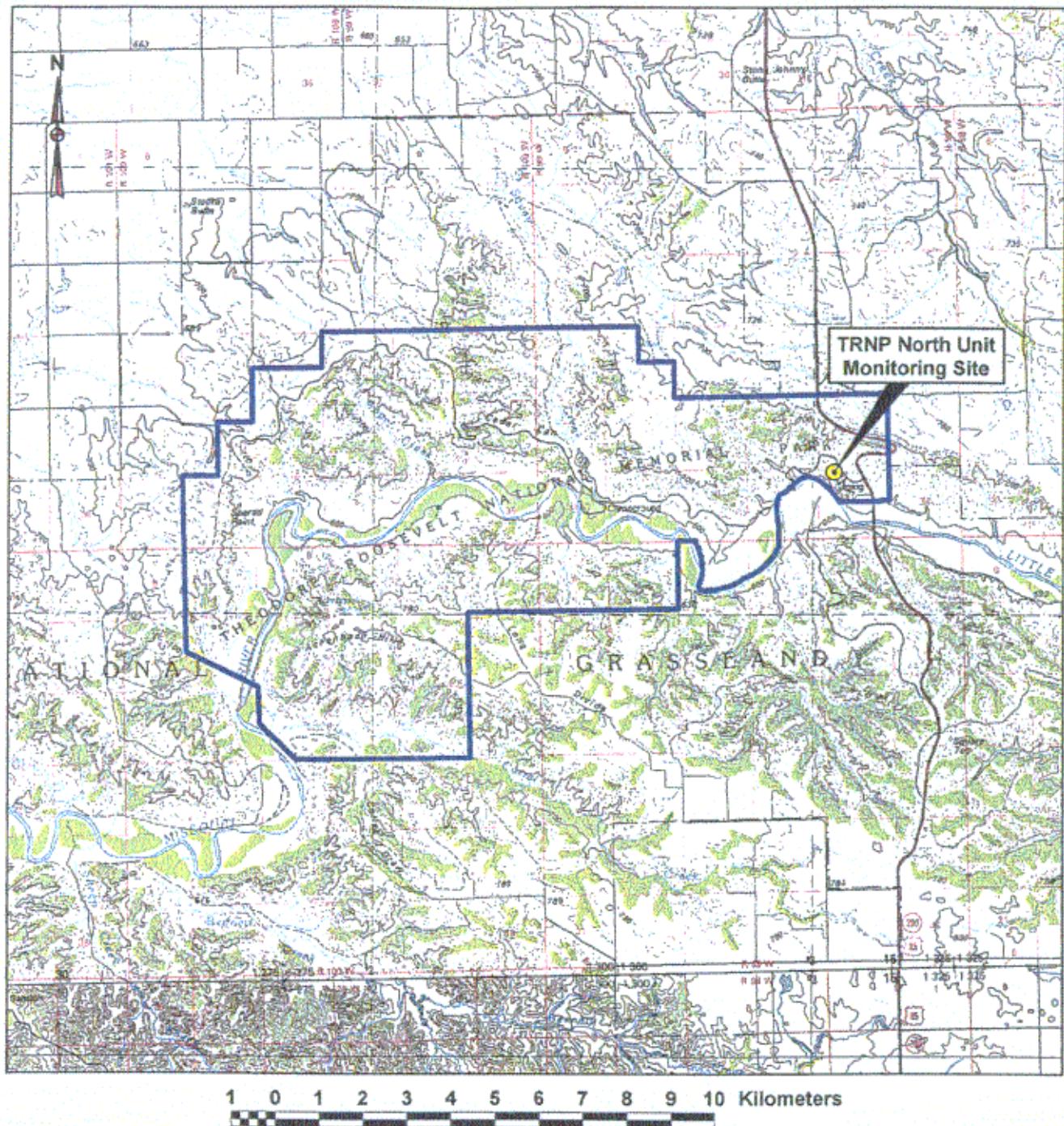
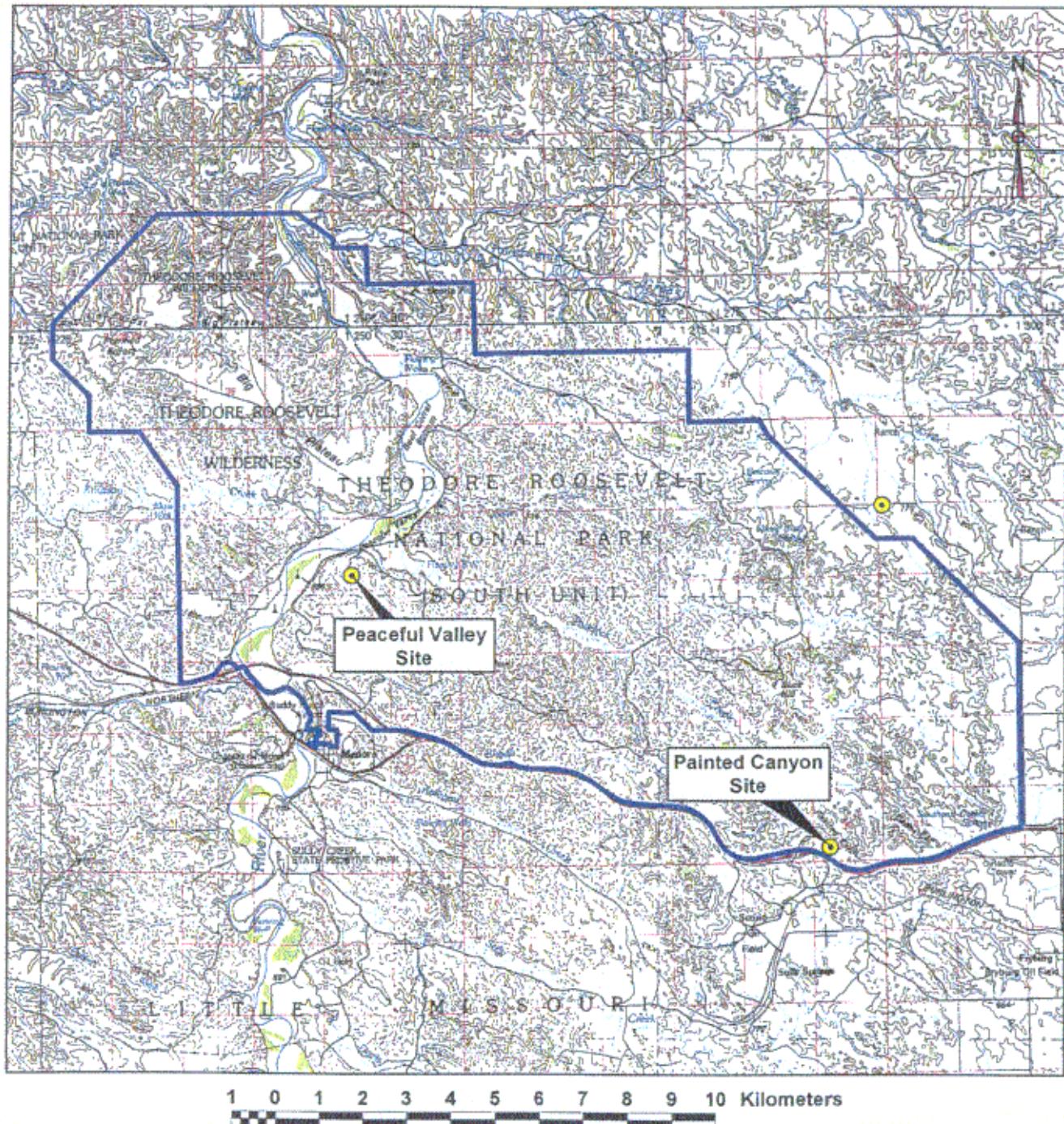


FIGURE 1
LOCATION OF THEODORE ROOSEVELT NATIONAL PARK



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Figure 2
TRNP North Unit Monitor Location



Peaceful Valley Site operated from 1980 through 1985.
 Painted Canyon Site operated from 1985 through 1990 and again from 1998 through the present.

1-Hour Average Data Completeness by Quarter
SO₂ Monitoring Sites, Theodore Roosevelt National Park

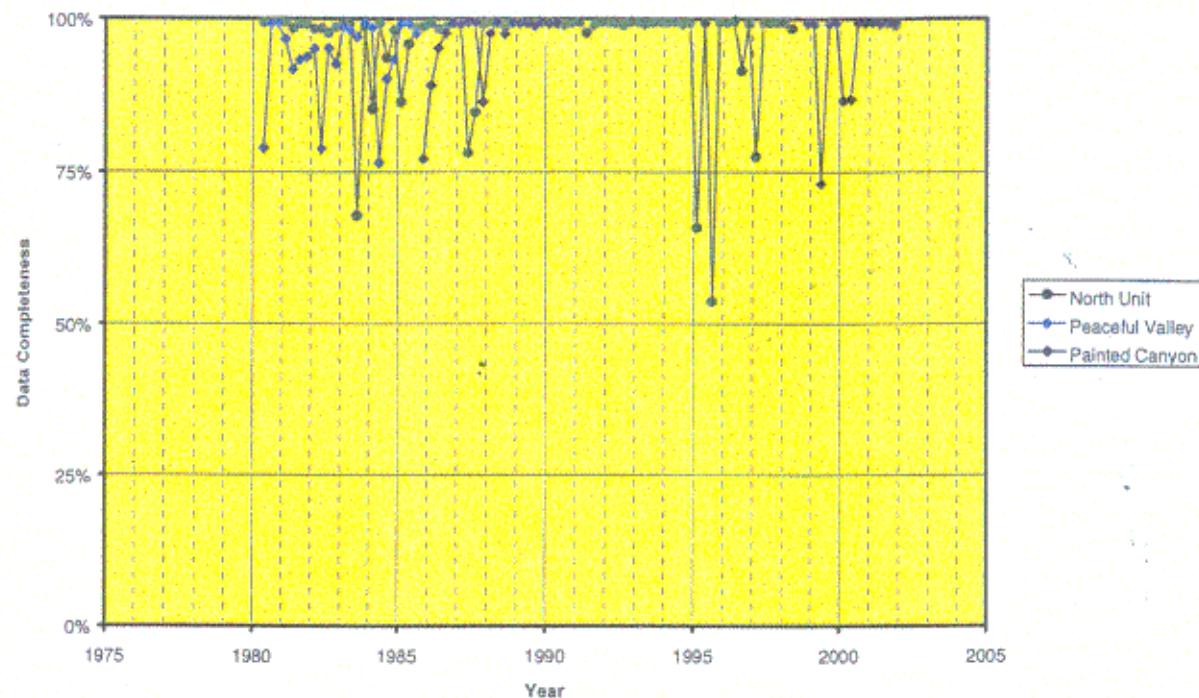


FIGURE 4

QUARTERLY DATA COMPLETENESS, 1-HOUR AVERAGE SO₂ DATA

Measured 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, North Unit

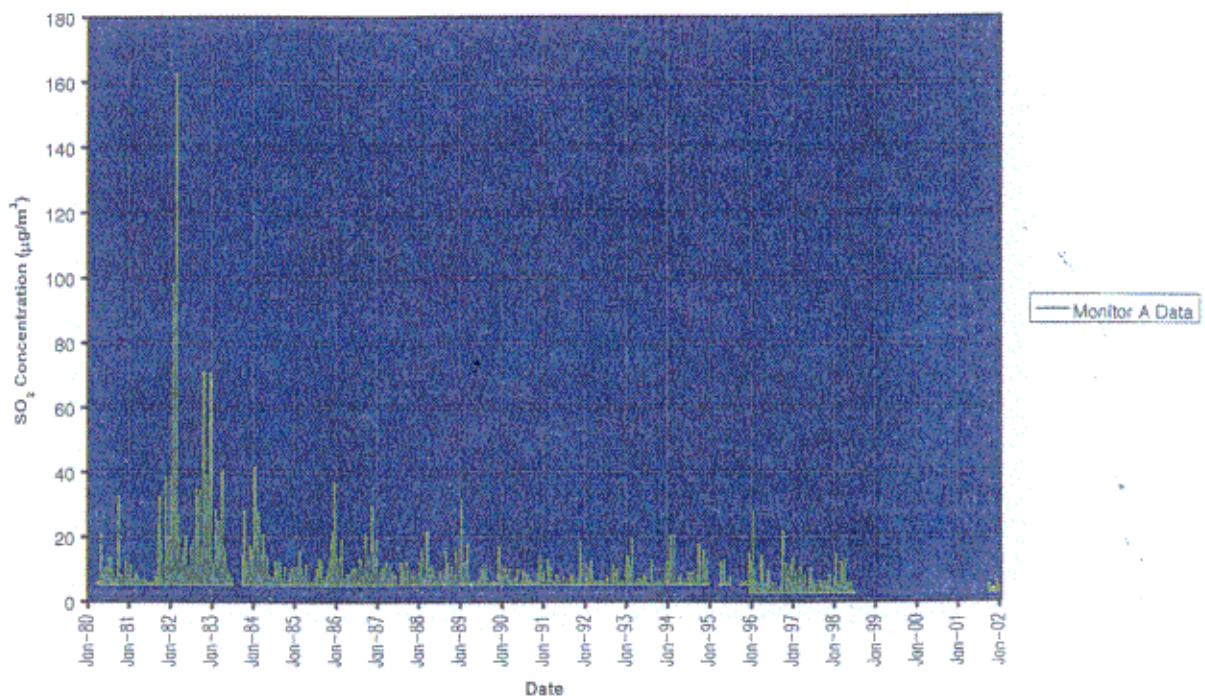


FIGURE 5
24-HOUR AVERAGE SO₂ CONCENTRATIONS, TRNP NORTH UNIT

**Measured 3-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, North Unit**

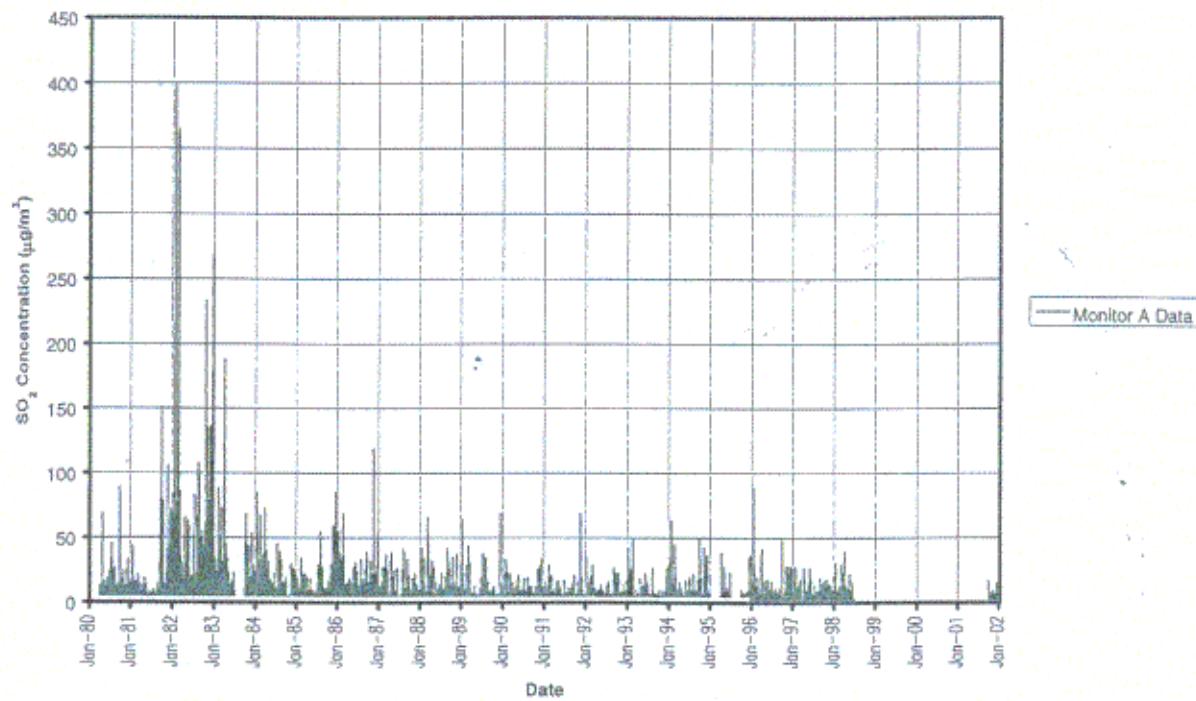


FIGURE 6
3-HOUR AVERAGE SO₂ CONCENTRATIONS, TRNP NORTH UNIT

Measured 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, South Unit

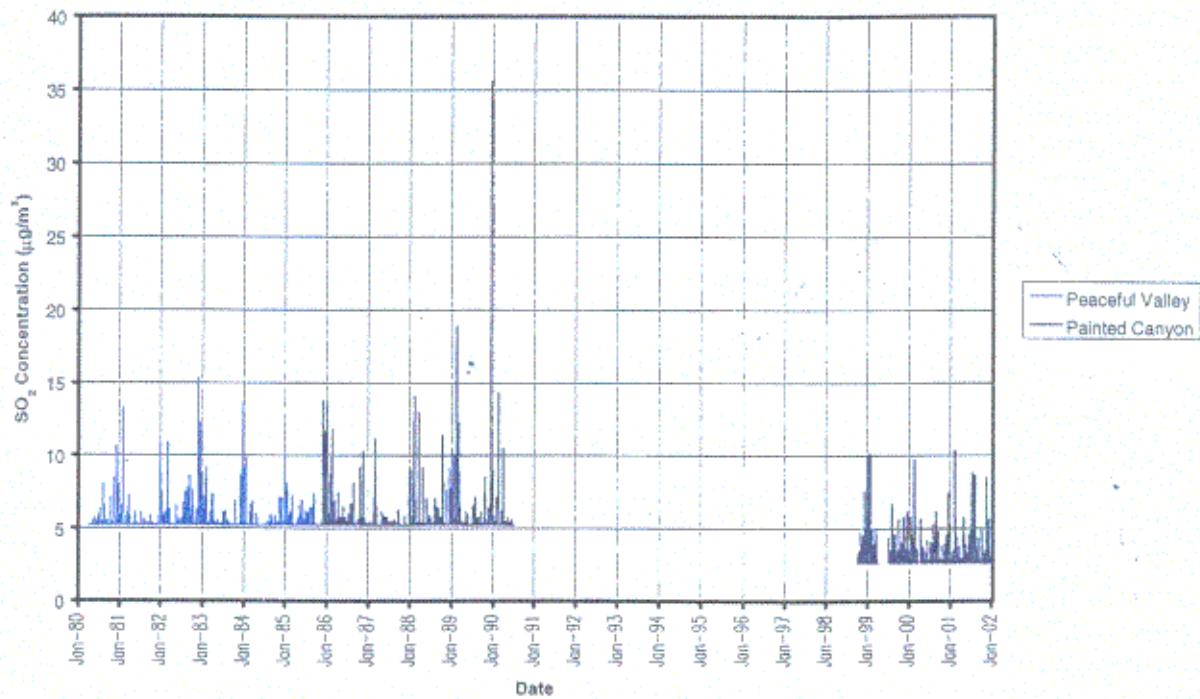


FIGURE 7
24-HOUR AVERAGE SO₂ CONCENTRATIONS, TRNP SOUTH UNIT

**Measured 3-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, South Unit**

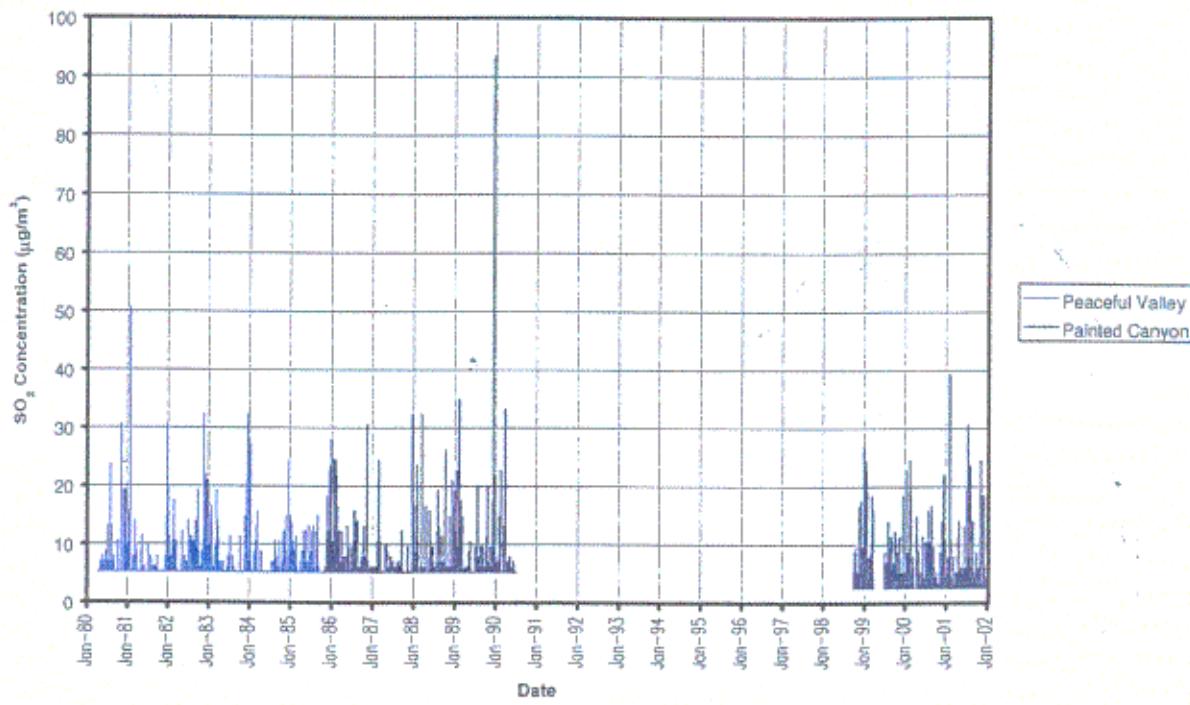


FIGURE 8
3-HOUR AVERAGE SO₂ CONCENTRATIONS, TRNP SOUTH UNIT

**Percent of Measurable 1-Hour Average Concentrations by Quarter
SO₂ Monitoring Sites, Theodore Roosevelt National Park**

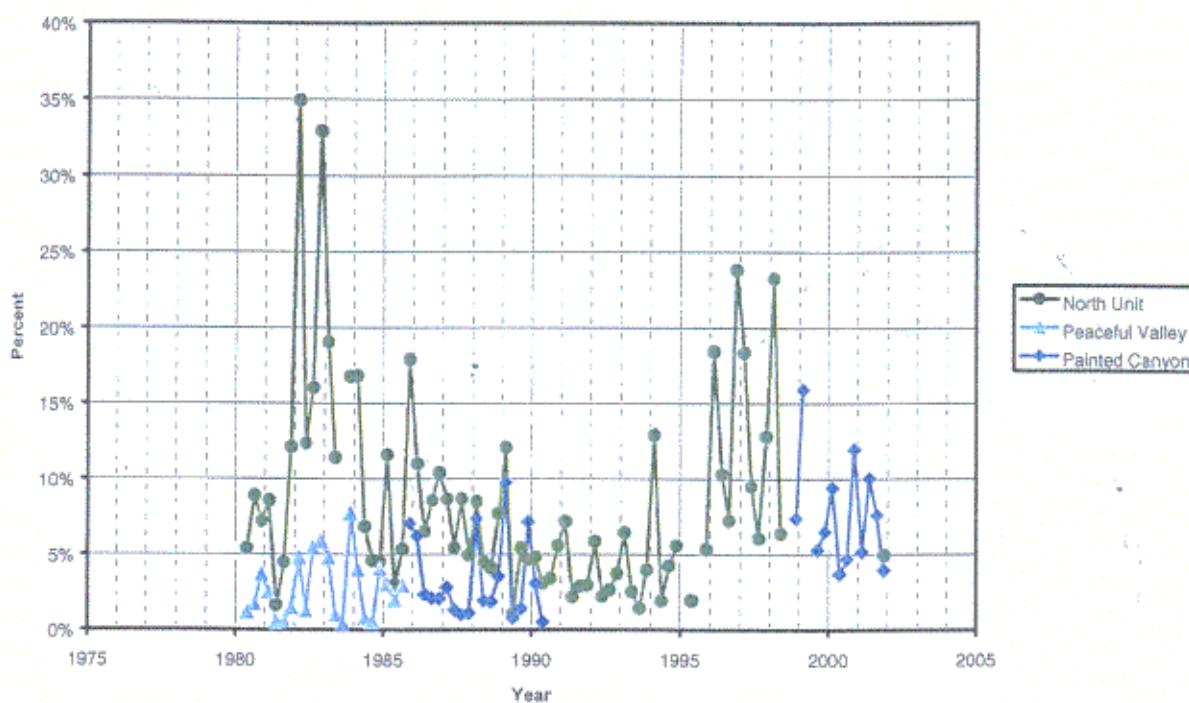


FIGURE 9

PERCENT OF MEASURABLE 1-HOUR AVERAGE SO₂ CONCENTRATIONS

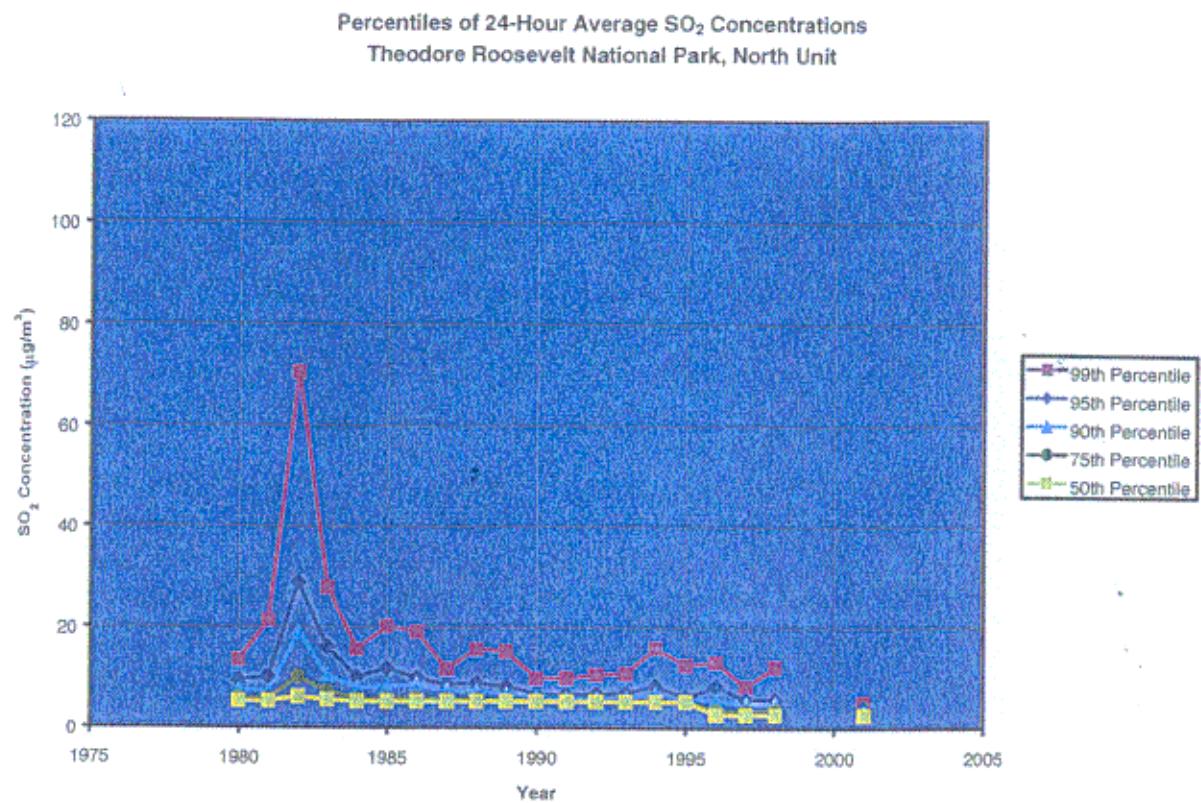


FIGURE 10

PERCENTILES OF 24-HOUR AVERAGE SO₂ CONCENTRATIONS BY YEAR, NORTH UNIT

Percentiles of 24-Hour Average SO₂ Concentrations by Month
Theodore Roosevelt National Park, North Unit

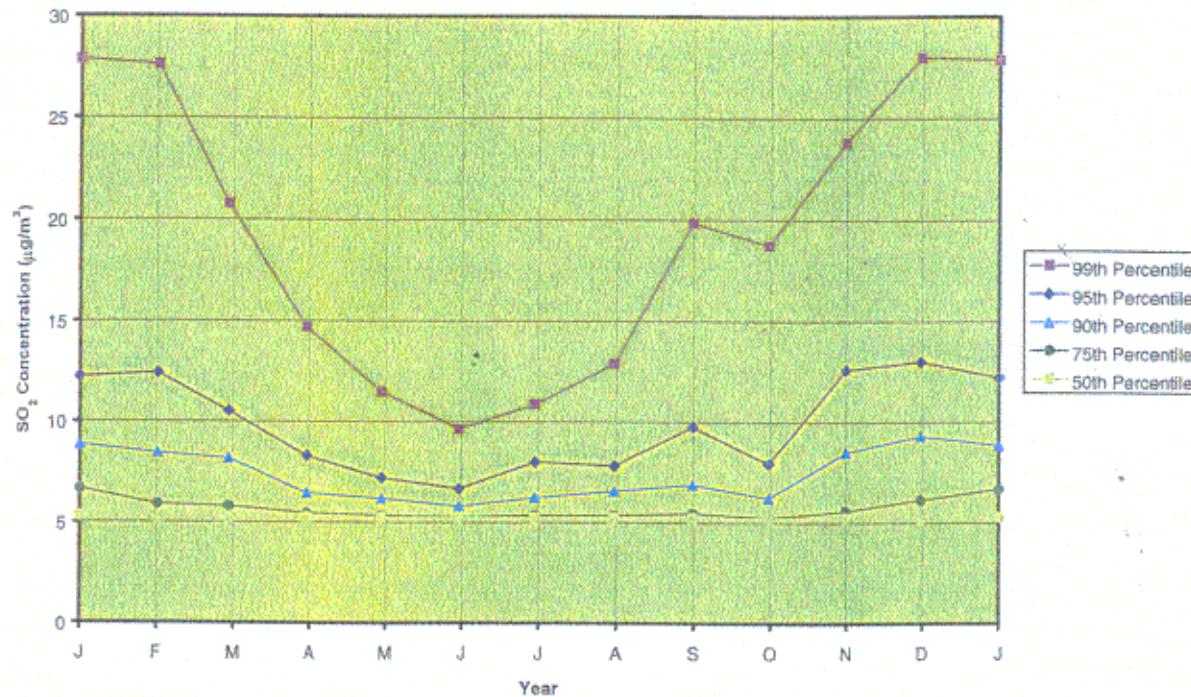


FIGURE 11

**PERCENTILES OF 24-HOUR AVERAGE SO₂ CONCENTRATIONS BY MONTH
NORTH UNIT**

Percentiles of 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, South Unit

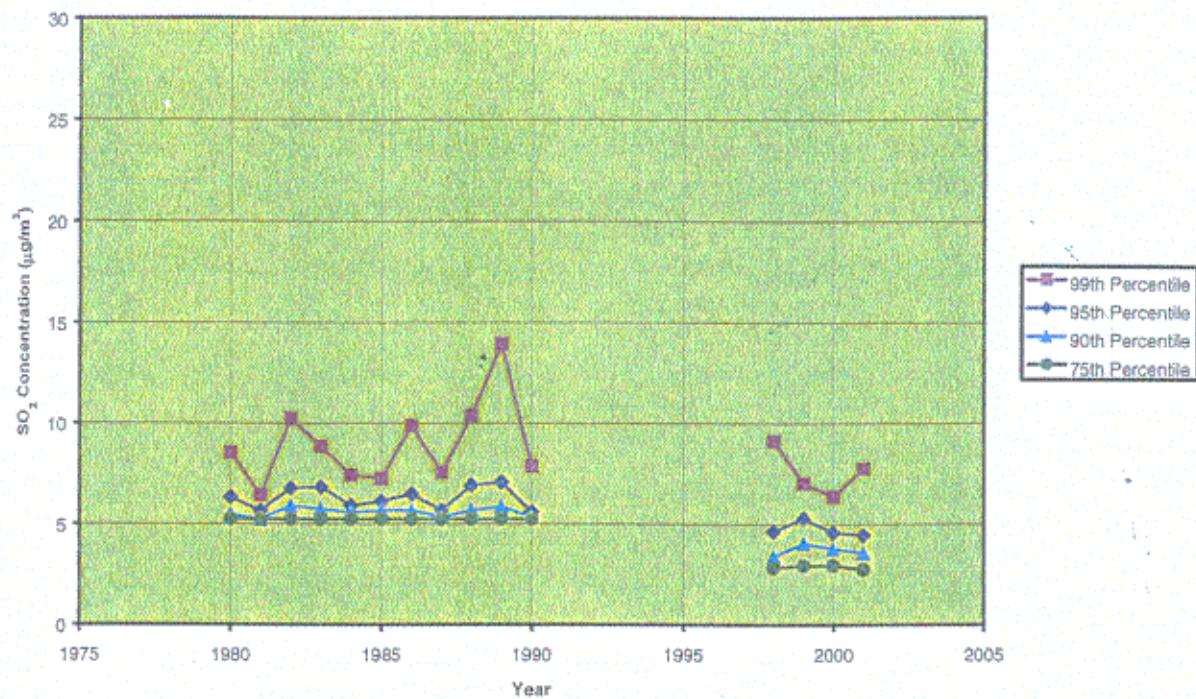


FIGURE 12
PERCENTILES OF 24-HOUR AVERAGE SO₂ CONCENTRATIONS BY YEAR
SOUTH UNIT

Percentiles of 24-Hour Average SO₂ Concentrations by Month
Theodore Roosevelt National Park, South Unit

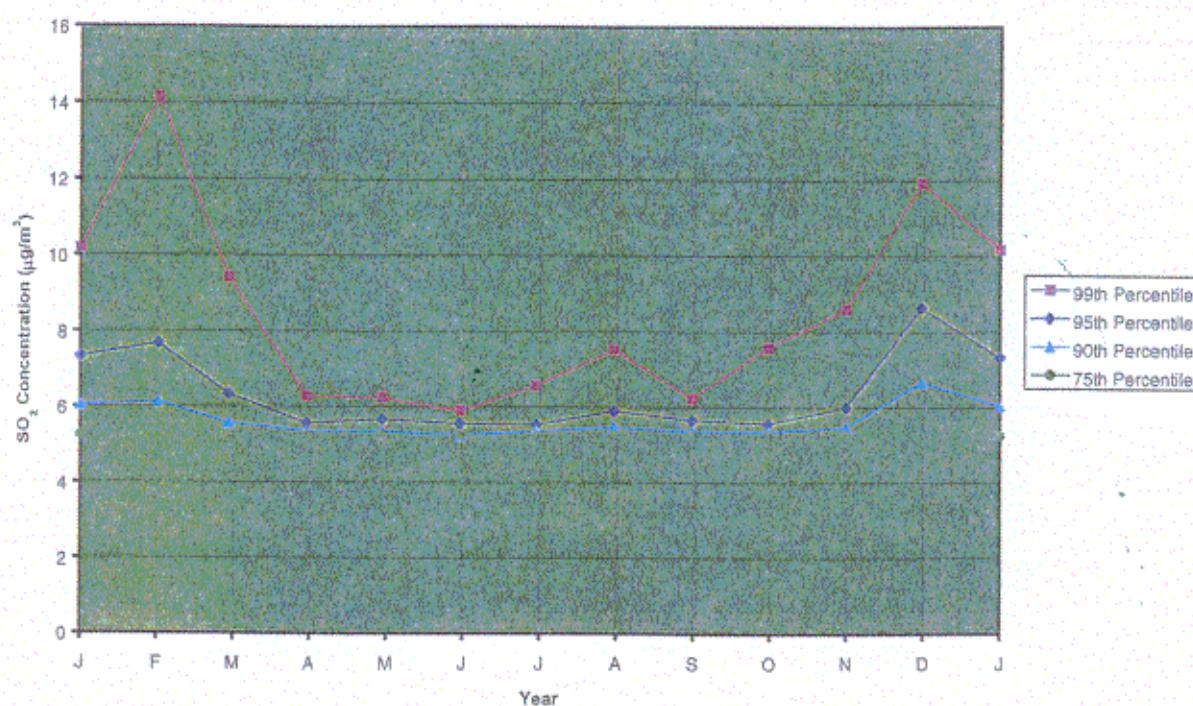


FIGURE 13
PERCENTILES OF 24-HOUR AVERAGE SO₂ CONCENTRATIONS BY MONTH
SOUTH UNIT

**2nd High 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park**

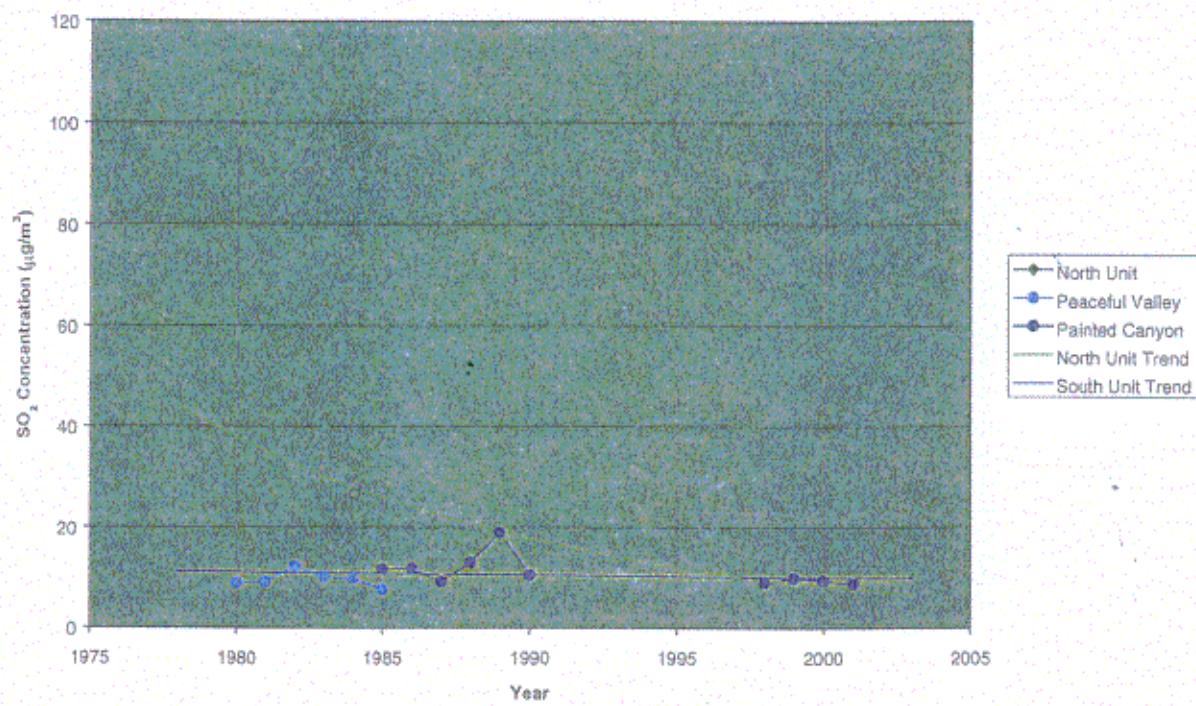


FIGURE 14
SECOND HIGHEST 24-HOUR AVERAGE SO₂ CONCENTRATIONS BY YEAR

2nd High 3-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park

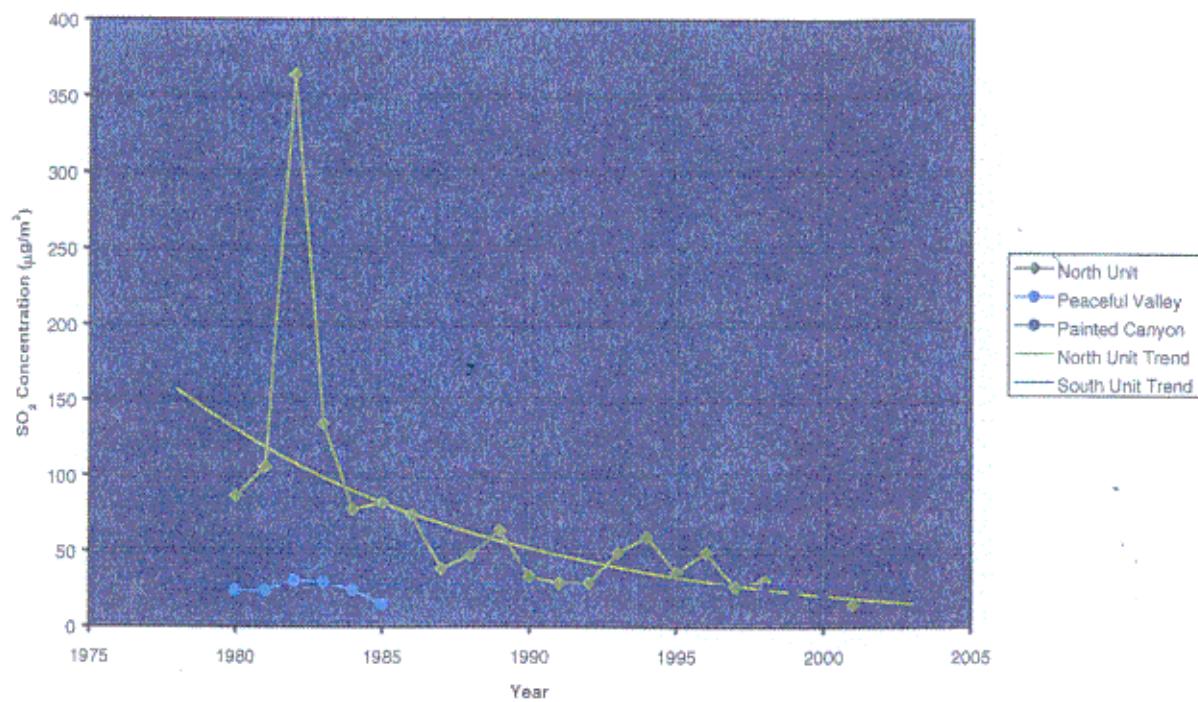


FIGURE 15
SECOND HIGHEST 3-HOUR AVERAGE SO₂ CONCENTRATIONS BY YEAR

2nd High 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, North Unit

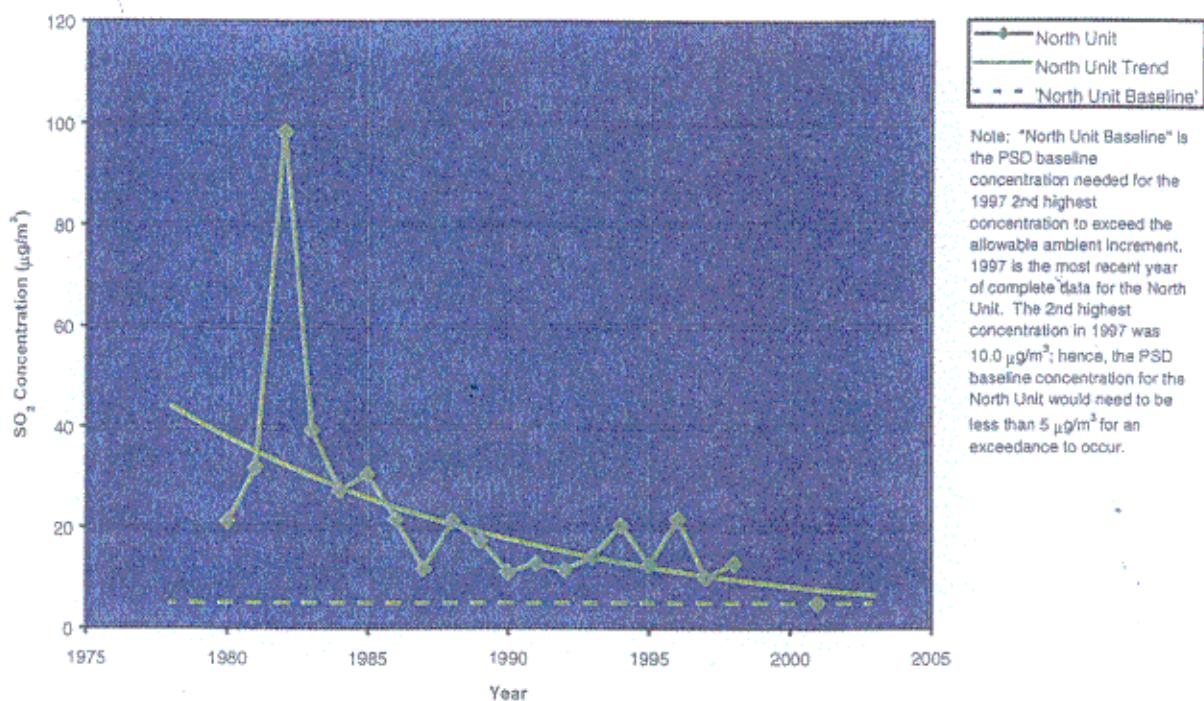


FIGURE 16

PROJECTED NORTH UNIT
24-HOUR BASELINE CONCENTRATION

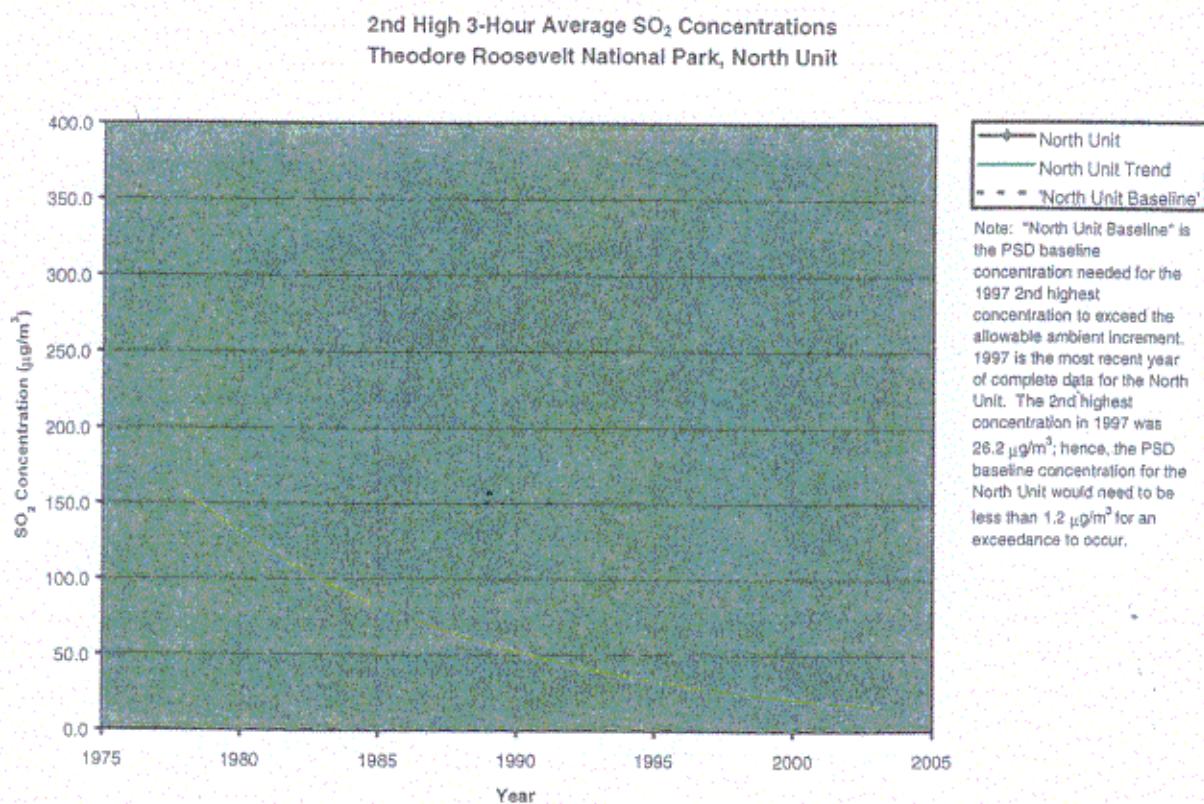
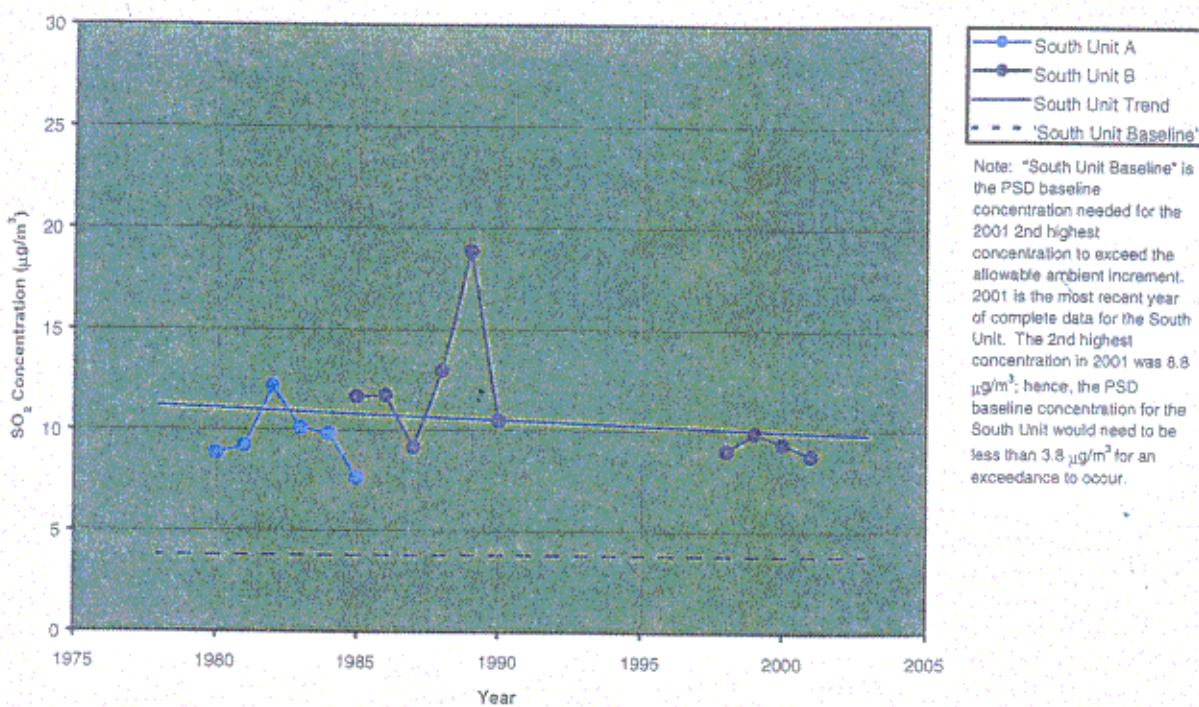


FIGURE 17

**PROJECTED NORTH UNIT
3-HOUR BASELINE CONCENTRATION**

**2nd High 24-Hour Average SO₂ Concentrations
Theodore Roosevelt National Park, South Unit**



Note: "South Unit Baseline" is the PSD baseline concentration needed for the 2001 2nd highest concentration to exceed the allowable ambient increment. 2001 is the most recent year of complete data for the South Unit. The 2nd highest concentration in 2001 was 8.8 $\mu\text{g}/\text{m}^3$; hence, the PSD baseline concentration for the South Unit would need to be less than 3.8 $\mu\text{g}/\text{m}^3$ for an exceedance to occur.

FIGURE 18

**PROJECTED SOUTH UNIT
24-HOUR BASELINE CONCENTRATION**

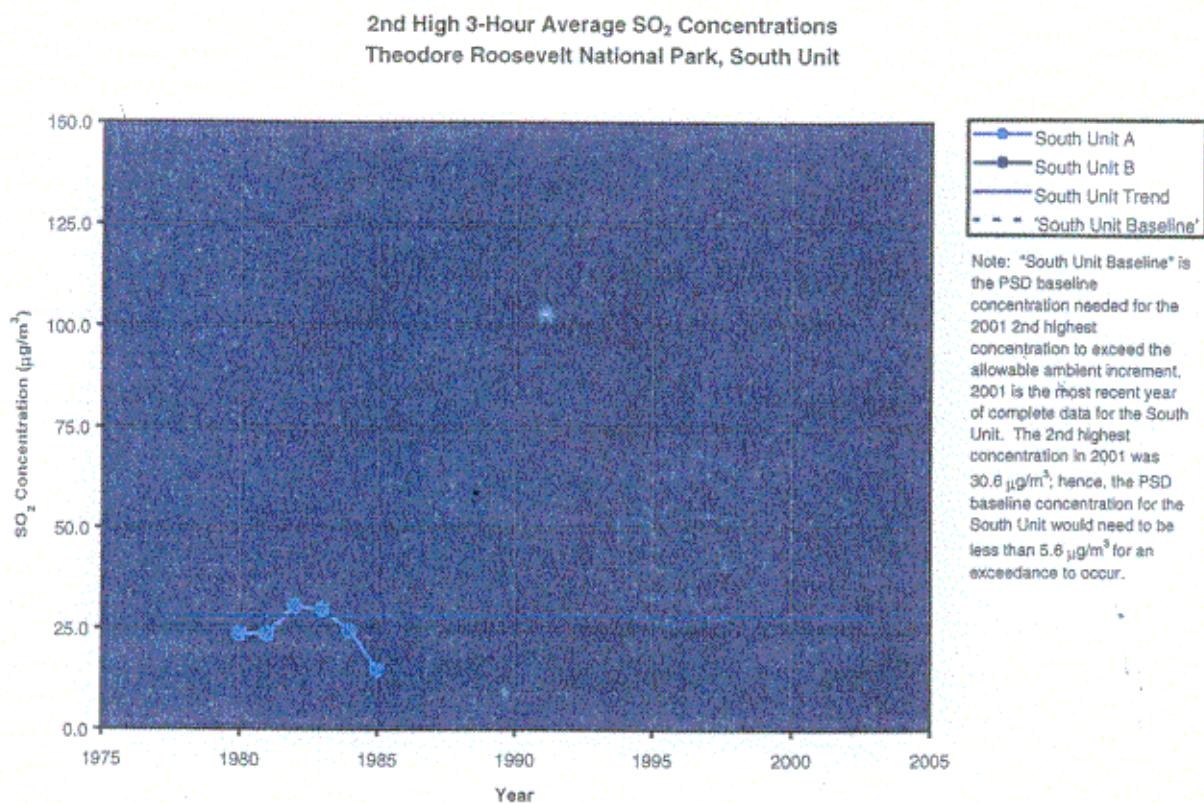


FIGURE 19

**PROJECTED SOUTH UNIT
3-HOUR BASELINE CONCENTRATION**